ELSEVIER

Thin Solid Films 330 (1998) 215

thin solid films

Author Index of Volume 330

Albers, W.M. 114
Aleksandrov, L.N. 102
Andreev, A. 150
Asomoza, R. 83

Baldacchini, G. 67
Barthel, E. 27
Basantakumar Sharma, H. 184
Bhattacharya, B. 146
Bolin, S. 62
Bordarier, P. 21
Burattini, E. 67

Carney, T. 132
Chan, K.S. 196
Chiou, B.-S. 173
Cho, B.-R. 190
Chung, C.Y. 196

Danesh, P. 150
Denton, A.M. 7
Diesner, K. 70
Dijkstra, M. 14
Dörfel, I. 108
Dorfman, B.F. 76
Drott, J. 161

Ellis, C.D. 62
Ennaoui, A. 70
Estrada, M. 83

Fenske, F. 108
Fornarini, L. 67
Fuchs, A.H. 21
Fuhs, W. 108
Fujita, S. 211

Giersig, M. 70
Gotoh, Y. 125
Grötzschel, R. 202
Gruhn, T. 46
Gu, H.D. 196
Gulati, R. 146

Haberlandt, R. 34
Han, X.D. 196
Hashimoto, M. 183
Helm, C.A. 1

Ikeda, K. 206

Jackowska, K. 167
Jang, H.M. 89
Jang, S.-I. 89
Joo, J.-H. 190

Kamei, H. 183
Karakoleva, E. 150
Kim, J.-Y. 190
Kimkkim, K. 139
Ko, H.-C. 211
Ko, Y.-K. 190
Komiya, S. 206
Krysiñski, P. 167

Lai, J.K.L. 196
Laurell, T. 161
Lee, W.-H. 190
Lee, Y.-K. 190
Lemmetyinen, H. 114
Leung, K.M. 196
Likonen, J. 114
Lindström, K. 161
Liu, W. 120
Lokhande, C.D. 70
Löwen, H. 7

Mächtle, P. 1
Mancini, A. 67
Markwitz, A. 202
Martelli, S. 67
Matz, W. 202
Mazur, M. 167
Merkulov, A. 83
Miyashita, S. 183
Montereali, R.M. 67
Morales-Acevedo, A. 96
Moriya, S. 183
Muller, M. 70
Murai, M. 183

Nakamura, T. 206
Nakashima, K. 70
Nishiwaki, T. 183
Nitzsche, P. 202
Novikov, P.L. 102

Olivas, J.D. 62
Ortega-López, M. 96
Ozawa, L. 173

Pantchev, B. 150
Park, C.B. 139
Park, D.-K. 190
Park, H.-S. 190
Park, J.-W. 190
Patil, P.S. 70
Peltonen, J. 114
Peng, C.-C. 173

Qiao, Y. 157
Qiu, H. 183

Ramesham, R. 62
Rebohle, L. 202
Reucroft, P.J. 190
Rosengren, L. 161
Rousseau, B. 21

Sarma, H.N.K. 178
Schierhorn, E. 108
Schoen, M. 46
Sehgal, B.K. 146
Seifarth, H. 202
Shimada, M. 183
Sieber, I. 108
Silvain, J.F. 132
Soto, S. 83
Sumi, K. 183
Suzuki, T. 125

Takei, K. 183
Tan, G.-L. 59
Teleman, O. 114
Tomita, H. 206
Tributsch, H. 70
Tseng, Y.-H. 173

Urban, I. 108

Vinayak, S. 146

Wanderka, N. 108
Wu, X.-J. 59

Xue, Q. 120

Yang, B. 157
You, L. 196

Zafirova, B. 150
Zhang, Z. 120

0040-6090/98/$ - see front matter
PII S0040-6090(98)01261-9
© 1998 Elsevier Science S.A. All rights reserved

ELSEVIER

Thin Solid Films 330 (1998) 216–219

thin solid films

Subject Index of Volume 330

Adhesion
Adhesion and adhesion hysteresis of mica surfaces covered with bola-amphipiles in dry and humid air, 1
Alkanes
Structure and solvation forces in confined films of alkanes, 14
Amorphization
C49-$TiSi_2$ epitaxial orientation dependence of C49-to-C54 phase transformation rate, 206
Amorphous marterials
Critical parameters of percolation in metal-dielectric diamond-like composites of atomic scale, 76
High deposition rate of amorphous silicon thick layers using a gas mixture of 10% silane in hydrogen, 83
Amorphous silicon
a-Si:H film on side-polished fiber as optical polarizer and narrow-band filter, 150
Atomic force microscopy (AFM)
Structural aspects of self-assembly of thienoviologen molecular conductors on gold substrates, 114
Heteroepitaxial growth of $Zn_{1-x}Cd_xSe$ on cleavage-induced GaAs (110) surface in ultra high vacuum, 211
Auger electron spectroscopy (AES)
Friction and wear properties of film formed in the immersion test of oil containing the complex of lanthanide diethyldithiocarbamate and phenanthroline, 120
Backscattering
Thermal reliability of *n*-GaAs/Ti/Pt/Au Schottky contacts with thin Ti films for reduced gate resistance, 146
Barium oxide
Electrical properties of sol-gel processed barium titanate films, 178
Bola-amphiphile
Adhesion and adhesion hysteresis of mica surfaces covered with bola-amphipiles in dry and humid air, 1
Boron
Structure and electrical properties of boron-added (Ba,Sr)TiO_3 thin films fabricated by the sol-gel method, 89
BST thin film
Structure and electrical properties of boron-added (Ba,Sr)TiO_3 thin films fabricated by the sol-gel method, 89
Carbon
Critical parameters of percolation in metal-dielectric diamond-like composites of atomic scale, 76
Charged colloid
Effective interaction and density profiles of confined charged colloids, 7
Chemical bath deposition
Process and characterisation of chemical bath deposited manganese sulphide (MnS) thin films, 70
Chemical vapor deposition
Deposition mechanism of MOCVD copper films in the presence of water vapor, 190
Computer simulation
Morphology of porous silicon structures formed by anodization of heavily and lightly doped silicon, 102
Computer simulations
Structure and solvation forces in confined films of alkanes, 14
Conductivity
Critical parameters of percolation in metal-dielectric diamond-like composites of atomic scale, 76
Confined fluid
Grand canonical ensemble Monte Carlo simulations of confined 'nematic' Gay–Berne films, 46
Confinement
Effective interaction and density profiles of confined charged colloids, 7
Copper
Deposition mechanism of MOCVD copper films in the presence of water vapor, 190
Density functional theory
Effective interaction and density profiles of confined charged colloids, 7
Deposition process
High deposition rate of amorphous silicon thick layers using a gas mixture of 10% silane in hydrogen, 83
Electrochemical deposition of poly(*o*-anisidine) and polypyrrole at octadecanethiol coated gold electrodes, 167
Diamond
Fabrication of diamond membranes for MEMS using reactive ion etching of silicon, 62
Diffusion process
Transport processes in porous media: diffusion in zeolites, 34
Electrical properties
Electrical properties of sol-gel processed barium titanate films, 178
Electron microscopic characterization
Electron microscopic characterization of reactively sputtered ZnO films with different Al-doping levels, 108
Epitaxy
Transmission electron microscope observation of Si deposited on W(110) surface, 125
Etching of silicon
Fabrication of diamond membranes for MEMS using reactive ion etching of silicon, 62
Ferroelectric properties
Thickness dependence of structural and ferroelectric properties of sol-gel $Pb(Zr_{0.56}Ti_{0.44})_{0.90}(Mg_{1/3}Nb_{2/3})_{0.10}O_3$ films, 183
Film growth
Process and characterisation of chemical bath deposited manganese sulphide (MnS) thin films, 70
Gallium arsenide
Heteroepitaxial growth of $Zn_{1-x}Cd_xSe$ on cleavage-induced GaAs (110) surface in ultra high vacuum, 211

0040-6090/98/$ - see front matter © 1998 Elsevier Science S.A. All rights reserved
PII S0040-6090(98)01262-0

Gay–Berne potential
Grand canonical ensemble Monte Carlo simulations of confined 'nematic' Gay–Berne films, 46
Grand Isostrain ensemble
A model for the static friction behaviour of nanolubricated contacts, 21
Growth mechanism
Electrochemical deposition of poly(*o*-anisidine) and polypyrrole at octadecanethiol coated gold electrodes, 167
Hysteresis
Adhesion and adhesion hysteresis of mica surfaces covered with bola-amphipiles in dry and humid air, 1
Interfaces
Thickness dependence of structural and ferroelectric properties of sol-gel $Pb(Zr_{0.56}Ti_{0.44})_{0.90}(Mg_{1/3}Nb_{2/3})_{0.10}O_3$ films, 183
Langmuir–Blodgett films (LB films)
Structural characterization of Langmuir–Blodgett films by X-ray diffraction in transmission geometry, 157
Laser ablation
Pulsed laser deposition of NiTi shape memory alloy thin films with optimum parameters, 196
Lattice parameters
Structural characterization of Langmuir–Blodgett films by X-ray diffraction in transmission geometry, 157
LiF films
Intense visible photoluminescence from coloured LiF films on silicon, 67
Liquid crystal
Grand canonical ensemble Monte Carlo simulations of confined 'nematic' Gay–Berne films, 46
Liquid phase epitaxy
Electrical properties of sol-gel processed barium titanate films, 178
Luminescence
Spectral properties of Eu^{3+}-activated yttrium oxysulfide red phosphor, 173
Manganese sulphide
Process and characterisation of chemical bath deposited manganese sulphide (MnS) thin films, 70
Membrane
Fabrication of diamond membranes for MEMS using reactive ion etching of silicon, 62
Metallization
Deposition mechanism of MOCVD copper films in the presence of water vapor, 190
Mica
Adhesion and adhesion hysteresis of mica surfaces covered with bola-amphipiles in dry and humid air, 1
Molecular conductors
Structural aspects of self-assembly of thienoviologen molecular conductors on gold substrates, 114
Molecular dynamics
Effective interaction and density profiles of confined charged colloids, 7
Monolayers
Electrochemical deposition of poly(*o*-anisidine) and polypyrrole at octadecanethiol coated gold electrodes, 167
Monte Carlo simulation
A model for the static friction behaviour of nanolubricated contacts, 21
Grand canonical ensemble Monte Carlo simulations of confined 'nematic' Gay–Berne films, 46
Nanolubrication
A model for the static friction behaviour of nanolubricated contacts, 21
Nanostructures
Preparation of SiO_2 films with embedded Si nanocrystals by reactive r.f. magnetron sputtering, 202
Heteroepitaxial growth of $Zn_{1-x}Cd_xSe$ on cleavage-induced GaAs (110) surface in ultra high vacuum, 211
NiAlFe thin film
Chemical analysis of NiAlFe thin films sputter deposited onto sapphire substrates, 132
NiTi
Pulsed laser deposition of NiTi shape memory alloy thin films with optimum parameters, 196
Nitrides
The effect of geometrical misfit dislocation on formation of microstructure and photoluminescence of Wurtzite GaN/Al_2O_3 (0001) films grown by low pressure metal-organic chemical vapor deposition, 139
Oil immersion test
Friction and wear properties of film formed in the immersion test of oil containing the complex of lanthanide diethyldithiocarbamate and phenanthroline, 120
Optical fiber
a-Si:H film on side-polished fiber as optical polarizer and narrow-band filter, 150
Optical properties
The effect of geometrical misfit dislocation on formation of microstructure and photoluminescence of Wurtzite GaN/Al_2O_3 (0001) films grown by low pressure metal-organic chemical vapor deposition, 139
Optoelectronic devices
a-Si:H film on side-polished fiber as optical polarizer and narrow-band filter, 150
Organometallic vapor deposition
The effect of geometrical misfit dislocation on formation of microstructure and photoluminescence of Wurtzite GaN/Al_2O_3 (0001) films grown by low pressure metal-organic chemical vapor deposition, 139
Oxygen sensor
Electronic conductivity of a ZrO_2 thin film as an oxygen sensor, 59
Phase transitions
Critical parameters of percolation in metal-dielectric diamond-like composites of atomic scale, 76
C49-$TiSi_2$ epitaxial orientation dependence of C49-to-C54 phase transformation rate, 206
Phosphor
Spectral properties of Eu^{3+}-activated yttrium oxysulfide red phosphor, 173
Photoluminescence
Intense visible photoluminescence from coloured LiF films on silicon, 67
Physical model
Electronic conductivity of a ZrO_2 thin film as an oxygen sensor, 59
Physical vapour deposition
Chemical analysis of NiAlFe thin films sputter deposited onto sapphire substrates, 132

Plasma processing
Preparation of SiO_2 films with embedded Si nanocrystals by reactive r.f. magnetron sputtering, 202
Plasma processing and deposition
High deposition rate of amorphous silicon thick layers using a gas mixture of 10% silane in hydrogen, 83
Polymers
Electrochemical deposition of poly(*o*-anisidine) and polypyrrole at octadecanethiol coated gold electrodes, 167
Protective film
Friction and wear properties of film formed in the immersion test of oil containing the complex of lanthanide diethyldithiocarbamate and phenanthroline, 120
Pulsed field gradient nuclear magnetic resonance
Transport processes in porous media: diffusion in zeolites, 34
Quantum chemical calculations
Structural aspects of self-assembly of thienoviologen molecular conductors on gold substrates, 114
Quantum effect
Morphology of porous silicon structures formed by anodization of heavily and lightly doped silicon, 102
Reaction kinetics
Pore morphology influence on catalytic turn-over for enzyme activated porous silicon matrices, 161
Reactive co-sputtering
Electron microscopic characterization of reactively sputtered ZnO films with different Al-doping levels, 108
Reactive ion etching
Fabrication of diamond membranes for MEMS using reactive ion etching of silicon, 62
Resistivity
Characterization of $CuInS_2$ thin films for solar cells prepared by spray pyrolysis, 96
Sapphire single crystal
Chemical analysis of NiAlFe thin films sputter deposited onto sapphire substrates, 132
Schottky
Thermal reliability of *n*-GaAs/Ti/Pt/Au Schottky contacts with thin Ti films for reduced gate resistance, 146
Schottky emission
Structure and electrical properties of boron-added (Ba,Sr)TiO_3 thin films fabricated by the sol-gel method, 89
Secondary ion mass spectroscopy
Structural aspects of self-assembly of thienoviologen molecular conductors on gold substrates, 114
Self-assembly
Structural aspects of self-assembly of thienoviologen molecular conductors on gold substrates, 114
Semiconductors
Characterization of $CuInS_2$ thin films for solar cells prepared by spray pyrolysis, 96
Sensors
Pore morphology influence on catalytic turn-over for enzyme activated porous silicon matrices, 161
Shape memory alloy
Pulsed laser deposition of NiTi shape memory alloy thin films with optimum parameters, 196
Silicides
C49-$TiSi_2$ epitaxial orientation dependence of C49-to-C54 phase transformation rate, 206
Silicon
Intense visible photoluminescence from coloured LiF films on silicon, 67
Morphology of porous silicon structures formed by anodization of heavily and lightly doped silicon, 102
Transmission electron microscope observation of Si deposited on W(110) surface, 125
Pore morphology influence on catalytic turn-over for enzyme activated porous silicon matrices, 161
Silicon oxide
Preparation of SiO_2 films with embedded Si nanocrystals by reactive r.f. magnetron sputtering, 206
Sintering additive
Structure and electrical properties of boron-added (Ba,Sr)TiO_3 thin films fabricated by the sol-gel method, 89
Solar cells
Characterization of $CuInS_2$ thin films for solar cells prepared by spray pyrolysis, 96
Sol-gel process
Electronic conductivity of a ZrO_2 thin film as an oxygen sensor, 59
Structure and electrical properties of boron-added (Ba,Sr)TiO_3 thin films fabricated by the sol-gel method, 89
Solvation forces
Structure and solvation forces in confined films of alkanes, 14
Surface deformation, spring stiffness and the measurement of solvation forces, 27
Sputtering
Preparation of SiO_2 films with embedded Si nanocrystals by reactive r.f. magnetron sputtering, 202
Static surface force
Surface deformation, spring stiffness and the measurement of solvation forces, 27
Statistical physics
Grand canonical ensemble Monte Carlo simulations of confined 'nematic' Gay–Berne films, 46
Structural properties
Morphology of porous silicon structures formed by anodization of heavily and lightly doped silicon, 102
Thickness dependence of structural and ferroelectric properties of sol-gel $Pb(Zr_{0.56}Ti_{0.44})_{0.90}(Mg_{1/3}Nb_{2/3})_{0.10}O_3$ films, 183
Surface and interface states
Deposition mechanism of MOCVD copper films in the presence of water vapor, 190
Surface deformation
Surface deformation, spring stiffness and the measurement of solvation forces, 27
Surface forces apparatus
Adhesion and adhesion hysteresis of mica surfaces covered with bola-amphipiles in dry and humid air, 1
Grand canonical ensemble Monte Carlo simulations of confined 'nematic' Gay–Berne films, 46
Surface morphology
Pore morphology influence on catalytic turn-over for enzyme activated porous silicon matrices, 161
Thin film
Electronic conductivity of a ZrO_2 thin film as an oxygen sensor, 59
Thin fluid films
Structure and solvation forces in confined films of alkanes, 14

Titanium oxide
Electrical properties of sol-gel processed barium titanate films, 178
Transmission electron microscopy (TEM)
Transmission electron microscope observation of Si deposited on W(110) surface, 125
The effect of geometrical misfit dislocation on formation of microstructure and photoluminescence of Wurtzite GaN/Al_2O_3 (0001) films grown by low pressure metal-organic chemical vapor deposition, 139
Thickness dependence of structural and ferroelectric properties of sol-gel $Pb(Zr_{0.56}Ti_{0.44})_{0.90}(Mg_{1/3}Nb_{2/3})_{0.10}O_3$ films, 183
Tribological properties
Friction and wear properties of film formed in the immersion test of oil containing the complex of lanthanide diethyldithiocarbamate and phenanthroline, 120
Tungsten
Transmission electron microscope observation of Si deposited on W(110) surface, 125
Ultrathin film
A model for the static friction behaviour of nanolubricated contacts, 21
Visible
Intense visible photoluminescence from coloured LiF films on silicon, 67
X-ray diffraction
Characterization of $CuInS_2$ thin films for solar cells prepared by spray pyrolysis, 96
Structural characterization of Langmuir–Blodgett films by X-ray diffraction in transmission geometry, 157
C49-$TiSi_2$ epitaxial orientation dependence of C49-to-C54 phase transformation rate, 206
X-ray photoelectron spectroscopy (XPS)
Friction and wear properties of film formed in the immersion test of oil containing the complex of lanthanide diethyldithiocarbamate and phenanthroline, 120
Y_2O_2S:Eu
Spectral properties of Eu^{3+}-activated yttrium oxysulfide red phosphor, 173
Zeolites
Transport processes in porous media: diffusion in zeolites, 34
Zinc cadmium selenide
Heteroepitaxial growth of $Zn_{1-x}Cd_xSe$ on cleavage-induced GaAs (110) surface in ultra high vacuum, 211
ZnO:Al films
Electron microscopic characterization of reactively sputtered ZnO films with different Al-doping levels, 108